Additional Information

Precautions

- If your car was parked in direct sunlight resulting in a considerable rise in temperature inside the car, allow the unit to cool off before
- operating it. • If no power is being supplied to the unit, check the connections first. If everything is in order, check the fuse.
- If no sound comes from the speakers of a twospeaker system, set the fader control to the center position.
- If your car is equipped with a power antenna, it will extend automatically while the unit is operating.

If you have any questions or problems concerning your unit that are not covered in this manual, please consult your nearest Sony dealer.

Notes on handling CDs

A dirty or defective disc may cause sound dropouts while playing. To enjoy optimum sound, handle the disc by its edge. To keep the disc clean, do not touch the surface.



Do not stick paper or tape on the labeled surface.



Do not expose the discs to direct sunlight or heat sources such as hot air-ducts, or leave them in a car parked in direct sunlight where there can be a considerable rise in temperature inside the car.



Before playing, clean the discs with an optional cleaning cloth. Wipe each disc from the center

Do not use solvents such as benzine, thinner, commercially available cleaners, or antistatic spray intended for analog discs.



Notes on discs

If you use the discs explained below, the sticky residue can cause the CD to stop spinning and may cause malfunction or ruin your discs.

Do not use second-hand or rental CDs that have a sticky residue on the surface (for example from peeled-off stickers or from ink, or glue leaking from under the stickers).

There are paste residue Ink is sticky

Do not use rental CDs with old labels that are beginning to peel off.



Do not use your CDs with labels or stickers attached.



Notes on CD-R discs

• You can play CD-Rs (recordable CDs) on this unit. However depending on the conditions of the recording equipment or the CD-R disc itself, some CD-Rs cannot be played on this unit.

• You cannot play a CD-R that is not finalized (Finalization is necessary for a recorded CD-R disc to be played on the audio CD player). • You cannot play CD-RWs (rewritable CDs) on this player.

Notes on moisture condensation

On a rainy day or in a very damp area, moisture may condense on the lenses inside the CD player. Should this occur, the unit will not operate properly. In this case, remove the disc and wait for about an hour until the moisture evaporates.

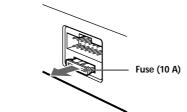
When you play 8 cm (3 in.) CDs Use the optional Sony compact disc single

adapter (CSA-8) to protect the CD player from damage

Maintenance

Fuse replacement

When replacing the fuse, be sure to use one matching the amperage rating stated on the original fuse. If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after replacement, there may be an internal malfunction. In such a case, consult your nearest Sonv dealer.

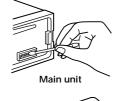


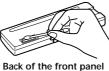
Warning

Never use a fuse with an amperage rating exceeding the one supplied with the unit as this could damage the unit.

Cleaning the connectors

The unit may not function properly if the connectors between the unit and the front panel are not clean. In order to prevent this, open the front panel by pressing (RELEASE), then detach it and clean the connectors with a cotton swab dipped in alcohol. Do not apply too much force. Otherwise, the connectors may be damaged.





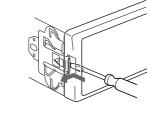
• For safety, turn off the engine before cleaning the connectors and remove the key from the ignition

switch. Never touch the connectors directly with your

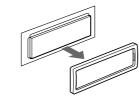
fingers or any metal device.

Dismounting the unit

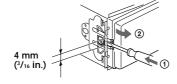
1 After taking off the front panel, press the clip inside the front cover with a thin screwdriver, and gently pry the front cover free.



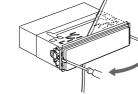
2 Repeat step 1 on the left side. The front cover is removed



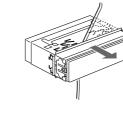
3 Use a thin screwdriver to push in the clip on the left side of the unit, then pull out the left side of the unit until the catch clears the mounting.



4 Repeat step 3 for the right side.



5 Slide the unit out of the mounting.



the unit. pen

memory functions.

1 Press (OFF).



CD pla System

Signal-to-noise ratio Frequency response Wow and flutter Laser Diode Properties Material Wavelength Emission Duration

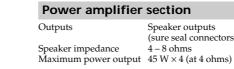


FM Tuning r Antenna Intermed Usable se Selectivit Signal-to-

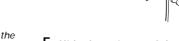
Harmoni

Separatio Frequency response AM Tuning range Antenna terminal Intermediate frequency

Sensitivity Power amplifier section







Specifications

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION 18 watts per channel minimum continuous average power into 4 ohms, 4 channels driven from 20 Hz to 20 kHz with no more than 1 % total harmonic distortion.

General

Tone controls

Dimensions

Outputs

Other specifications

ayer sectior

Compact disc digital audio 90 dB 10 - 20.000 HzBelow measurable limit GaAs + GaAlAs 785 ~ 815 nm (Typ.800 nm) Less than 0.5 mW* Laser output power * This output is the value measured at a distance of 0.7 mm from the objective lens surface on the Optical Pick-up Block.

Tuner section

ange	87.5 – 107.9 MHz
terminal	External antenna connector
liate frequency	10.7 MHz
ensitivity	12 dBf
ty	75 dB at 400 kHz
-noise ratio	65 dB (stereo),
	68 dB (mono)
ic distortion at 1 l	kHz
	0.7 % (stereo),
	0.5 % (mono)
on	35 dB at 1 kHz
cy response	30 – 15,000 Hz

30 µV

530 – 1,710 kHz

10.7 MHz/450 kHz

Speaker outputs

4-8 ohms

(sure seal connectors)

External antenna connector

Audio output Power amplifier control Power antenna relay control Bass +8 dB at 100 Hz Treble ±8 dB at 10 kHz 12 V DC car battery Power requirements (negative ground) Approx. 178×50×178 mm $(7^{1}/8 \times 2 \times 7^{1}/8 \text{ in.})$ (w/h/d)Approx. 182 × 53 × 162 mm Mounting dimensions $(7^{1}/4 \times 2^{1}/8 \times 6^{1}/2 \text{ in.})$ (w/h/d)Approx. 1.2 kg (2 lb. 10 oz.) Parts for installa Supplied accessories connections (1 set) Compact disc single adapter Optional accessories CSA-8

Design and specifications are subject to change without notice



FM/AM Compact Disc Player

Operating Instructions

Owner's Record

The model and serial numbers are located on the bottom of the unit. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. CDX-1300 Serial No.

For installation and connections, see the supplied installation/connections manua



CDX-1300

Sony Corporation ©2000 Printed in Japan

Warning

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures

- Reorient or relocate the receiving antenna. — Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/ TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

CAUTION

The use of optical instruments with this product will increase eye hazard.

Welcome !

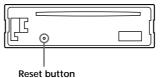
Thank you for purchasing the Sony Compact Disc Player. This unit lets you enjoy a variety of features

Getting Started

Resetting the unit

Before operating the unit for the first time or after replacing the car battery, you must reset

Remove the front panel and press the reset button with a pointed object, such as a ball-point



• Pressing the reset button will erase the clock setting and some memorized program and

 When you connect the power supply cord to the unit or reset the unit, wait for about 10 seconds before you insert a disc. If you insert a disc within these 10 seconds, the unit will not be reset, and you will have to press the reset button again

Detaching the front panel

You can detach the front panel of this unit to prevent the unit from being stolen.

2 Press (RELEASE), then slide the front panel a little to the left, and pull it off towards you.



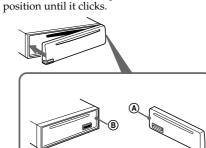
• If you detach the panel while the unit is still turned on, the power will turn off automatically to prevent the speakers from being damaged.

from the unit.

 When carrying the front panel with you, use the supplied front panel case. Attaching the front panel

· Be sure not to drop the panel when detaching it

Attach part (A) of the front panel to part (B) of the unit as illustrated and push the left side into



· Be sure not to attach the front panel upside down. • Do not press the front panel too hard against the unit when attaching it.

- · Do not press too hard or put excessive pressure on the display window of the front panel.
- Do not expose the front panel to direct sunlight or heat sources such as hot air ducts, and do not leave it in a humid place. Never leave it on the dashboard of a car parked in direct sunlight or where there may be a considerable rise in temperature.

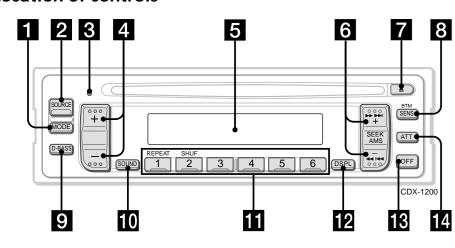
Caution alarm

If you turn the car ignition off without removing the front panel, the caution alarm will beep for a few seconds.

If you connect an optional power amplifier and do not use the built-in amplifier, the beep sound will be deactivated.

Sonyon line http://www.world.sony.com/

Location of controls



- 1 MODE (band select) button
- 2 SOURCE (source select) button

3 Reset button

- 4 + (volume/bass/treble/left-right/ front-rear control) button
- 5 Display window
- 6 SEEK/AMS (seek/Automatic Music Sensor/ manual search) button
- 7 ≜ (eject) button
- 8 SENS/BTM (sensitivity adjust/Best Tuning Memory) button
- 9 D-BASS button

- SOUND button
- **11** During radio reception:
- Number buttons During CD playback:
- REPEAT button 2 SHUF button
- DSPL (display mode change/time set) button
- 13 OFF button*
- 14 ATT (attenuate) button

*Warning when installing in a car without ACC (accessory) position on the ignition key switch Be sure to press $\bigcirc \overline{\texttt{OFF}}$ on the unit for two seconds to turn off the clock display after turning off the engine. When you press OFF) momentarily, the clock display does not turn off and this causes battery wear.

Setting the clock

The clock has a 12-hour digital indication.

Example: To set the clock to 10:08

1 Press (DSPL) during operation.

$\label{eq:press_def} \mbox{Press} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $
100
The hour indication flashes.

• Set the hour.

2

= To go forward To go backward



2 Press (SOUND).

1000 The minute indication flashes Set the minute. To go forward To go backward 1008 3 Press (DSPL).

10:08 The clock starts. If the car has no accessory position on the ignition key switch, the clock cannot be set unless the power is turned on. Set the clock after you have turned on Radio

Memorizing stations automatically

- Best Tuning Memory (BTM) This unit selects the stations with the strongest

signals and memorizes them in the order of their frequencies. You can store up to 6 stations on each band (FM I, FM II, FM III, and AM).

Caution

- When tuning in stations while driving, use Best Tuning Memory to prevent accidents.
- 1 Press (SOURCE) repeatedly to select the Each time you press (SOURCE), the mode changes as follows: $CD \leftrightarrow TUNER$
- 2 Press (MODE) repeatedly to select the band. Each time you press (MODE), the band changes as follows:

FM I FM II FM III AM -

- **3** Press (SENS/BTM) for two seconds. The unit stores stations in the order of their frequencies on the number buttons. "BTM" flashes while the stations are stored and a beep sounds when the setting is stored.
- Notes • The unit does not store stations with weak signals. If only a few stations can be received, some number buttons will retain their former setting.
- When a number is indicated in the display, the unit starts storing stations from the one currently displayed. • If a CD is not in the unit, only the tuner band
- appears even if you press SOURCE

CD Player

Listening to a CD

Insert a CD. Playback starts automatically. Label side up



If a CD is already inserted, press $\textcircled{\textbf{SOURCE}}$ repeatedly until "CD" appears to start playback.

	1	,	11
		CD	rmin arsec a
E	lapse	d playing	time

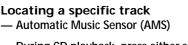
To play back an 8 cm (3 in.) CD, use the optional Sony compact disc single adapter (CSA-8).

То	Press
Stop playback	▲ or OFF
Eject the CD	

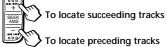
Changing the display item

Each time you press (DSPL) during CD playback, the item changes as follows:

Elapsed playing time Track number - Clock 🗲



During CD playback, press either side of (SEEK/AMS) for each track you want to skip



Locating a specific point in a track Manual Search

During playback, press and hold either side of <u>SEEK/AMS</u> for about two seconds. Release when you have found the desired point.

To search forward To search backward

Note ו*f "בבב"* or " י **ד ד**" appears in the displa you have reached the beginning or the end of the disc and you cannot go any further.

Playing a CD in various modes

Playing tracks repeatedly Repeat Play

Press ① during playback. "REPEAT" appears in the display.

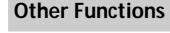
When the current track is over, it will play again from the beginning.

To return to normal playback mode, press again.

Playing tracks in random order - Shuffle Play

Press 2 during playback. "SHUF" appears in the display.

To return to normal playback mode, press again.



the radio, or started CD playback

Adjusting the sound characteristics

You can adjust the bass, treble, balance, and fader. You can store the bass and treble levels. Each source can store the bass and treble level independently.

1 Select the item you want to adjust by pressing (SOUND) repeatedly. BAS (bass) \rightarrow TRE (treble) \rightarrow

BALANCE (left-right) \rightarrow FADER (front-rear) \rightarrow VOL (volume)

$2\,$ Adjust the selected item by pressing \oplus or

Adjust within three seconds after selecting the item. (After three seconds, the buttons function reverts to volume control buttons.)

Cancel the beep sound

Press (6) while pressing (SOUND).

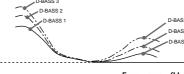
To obtain the beep sound again, press these buttons again.

If you connect an optional power amplifier and do not use the built-in amplifier, the beep sound will be deactivated

Boosting the bass sound — D-bass

You can enjoy a clear and powerful bass sound. The D-bass function boosts the low frequency and high frequency signal with a sharper curve than conventional bass boost. You can hear the bass line more clearly even

while the vocal volume remains the same. You can emphasize and adjust the bass sound easily with the D-BASS control.



- desired bass curve. "D-BASS" appear in the display.
- As the D-BASS number increases so does the effect.

► D-BASS 1 → D-BASS 2 → D-BASS 3 - OFF 🗲

Note The bass sound may distort at same volume. If the bass sound distorts, select less effective bass curve

Attenuating the sound

Press (ATT). "ATT" flashes.

To restore the previous volume level, press (ATT) again.

Frequency (Hz)



- Adjusting the bass curve

Memorizing only the desired stations

You can store up to 6 stations on each band (a total of 18 for FM I, FM II, and FM III, and 6 for AM) in the order of your choice.

1 Press (SOURCE) repeatedly to select the

2 Press (MODE) repeatedly to select the band.

3 press and hold either side of (SEEK/AMS) to tune in the station that you want to store on the number button

4 Press and hold the desired number button (1 to 6) until "MEM" appears. The number button indication appears in the display.

If you try to store another station on the same number button, the previously stored station will be

Note

erased.

Receiving the memorized stations

1 Press (SOURCE) repeatedly to select the tuner.

2 Press (MODE) repeatedly to select the band.

3 Press the number button (1 to 6) on which the desired station is stored.

If you cannot tune in a preset station

Press either side of (SEEK/AMS) to search for the station (automatic tuning). Scanning stops when the unit receives a station. Press either side of (SEEK/AMS) repeatedly until the desired station is received.

If the automatic tuning stops too frequently, press (SENS/BTM) repeatedly until "LOCAL" (local seek mode) is displayed. Only the stations with relatively strong signals will be tuned in.

If you know the frequency of the station you want to listen to, press and hold either side of (SEEK/AMS) to locate the frequency approximately, then press (SEEK/AMS) repeatedly to fine adjust to the desired frequency (manual tuning).

If FM stereo reception is poor - Monaural Mode

Press (SENS/BTM) repeatedly until "MONO" appears. The sound improves, but becomes monaural ("STEREO" disappears).

To return to normal mode, press again until "MONO" disappears

Changing the display item

Each time you press **DSPL**), the item changes as follows: Frequency ↔ Clock

Troubleshooting guide

The following checklist will help you remedy the problems you may encounter with your unit. Before going through the checklist below, check the connection and operating procedures.

0 0 0		
General		
Problem	Cause/Solution	
No sound.	 Adjust the volume with (+). Set the fader control to the center position for two-speaker systems. 	
The contents of the memory have been erased.	 The power cord or battery has been disconnected. The reset button has been pressed. → Store the settings again into the memory. 	
No beep sound.	 An optional power amplifier is connected and you are not using the built-in amplifier. The beep sound is cancelled. 	
CD playback		
Problem	Cause/Solution	
CD cannot be loaded.	Another CD is already loaded.The CD was forcibly inserted upside down.	
Play does not begin.	Dirty disc.	
CD is automatically ejected.	The ambient temperature exceeds 50°C (122°F).	
CD will not eject. The operation buttons do not function.	Press the reset button.	
The sound skips due to vibration.	The unit is installed at an angle of more than 60°.The unit is not installed in a sturdy part of the car.	
Radio reception		
Problem	Cause/Solution	
Preset tuning is not possible.	Memorize the correct frequency.The broadcast signal is too weak.	
Automatic tuning is not possible.	The broadcast signal is too weak. \rightarrow Use manual tuning.	
The stations cannot be received.	Connect an power aerial control lead (blue) or accessory power supply lead (red) to the power supply lead of a car's aerial	

supply lead (red) to the power supply lead of a car's aerial booster. (When your car has built-in FM/AM aerial in the rear/ The sound is hampered by side glass only.) The "STEREO" indication flashes. • Tune in the frequency accurately. • The broadcast signal is too weak. \rightarrow Set to the MONO mode.

Error displays

noises.

The following indications will flash for a while.

A CD is dirty or inserted upside down.	Clean or insert the CD correctly.
The CD player cannot be operated because of some problem.	Press the reset button.
	down. The CD player cannot be operated

up mip dealer.